

# ***Influenza Vaccine Crisis/ History of Successful Immunizations***

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National Immunization Program**



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South Lake Tahoe, NV  
June 28, 2005**

# Use of Trade Names

**The use of trade names and commercial sources during this presentation is for identification only, and does not imply endorsement by the U.S. Public Health Service, the Department of Health and Human Services, or the Centers for Disease Control and Prevention.**

# Disclosures

- The speaker has no financial interest or conflict with the manufacturer of any product named in this presentation
- The speaker will not discuss the use of any product in a manner not approved by the U.S. Food and Drug Administration (FDA)
- The speaker will mention vaccines not currently licensed by the FDA

# Adult Immunization Overview

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- **Immunizations Across the Lifespan**
- **Disease burden & immunization recommendations**
- **What does the future hold?**
- **Resources**

# **Immunizations**

## ***Across the Lifespan***

# **Recommended Adult Immunization Schedule**

## **UNITED STATES · OCTOBER 2004–SEPTEMBER 2005**

*Summary of Recommendations Published by*

**The Advisory Committee on  
Immunization Practices**



**DEPARTMENT OF HEALTH AND HUMAN SERVICES  
CENTERS FOR DISEASE CONTROL AND PREVENTION**



# Recommended Adult Immunization Schedule by Vaccine and Age Group

## UNITED STATES - OCTOBER 2004–SEPTEMBER 2005

Age group (yrs)†	15–49	50–64	≥65
Vaccine ▼			
Tetanus, Diphtheria (Td)*	1 dose booster every 10 years <sup>1</sup>		
Influenza	1 dose annually <sup>2</sup>		1 dose annually
Pneumococcal (polysaccharide)	1 dose <sup>3,4</sup>		1 dose <sup>3,4</sup>
Hepatitis B*	3 doses (0, 1–2, 4–6 months) <sup>5</sup>		
Hepatitis A*	2 doses (0, 6–12 months) <sup>5</sup>		
Measles, Mumps, Rubella (MMR)*	1 or 2 doses <sup>7</sup>		
Varicella*	2 doses (0, 4–8 weeks) <sup>6</sup>		
Meningococcal (polysaccharide)	1 dose <sup>8</sup>		

\* Covered by the Vaccine Injury Compensation Program.

See Footnotes for Recommended Adult Immunization Schedule on back cover.

For all persons  
in this group

For persons having documentation  
of vaccination or evidence of disease

For persons at risk (i.e., with  
medical/surgical indications)

The Recommended Adult Immunization Schedule is Approved by the Advisory Committee on Immunization Practices (ACIP),  
the American College of Obstetricians and Gynecologists (ACOG), and the American Academy of Family Physicians (AAFP)

This schedule indicates the recommended age groups for routine administration of currently licensed vaccines for persons aged ≥16 years. Licensed combination vaccines may be used whenever any components of the combination are indicated and when the vaccine's other components are not contraindicated. Providers should consult manufacturers' package inserts for detailed recommendations.

Report all clinically significant postvaccination reactions to the Vaccine Adverse Event Reporting System (VAERS). Reporting forms and instructions on filing a VAERS report are available by telephone, 800-822-7967, or from the VAERS website at <http://www.vaers.org>.

Information on how to file a Vaccine Injury Compensation Program claim is available at <http://www.hrsa.gov/asip/tdap> or by telephone, 800-338-2382. To file a claim for vaccine injury, contact the U.S. Court of Federal Claims, 717 Madison Place, N.W., Washington, DC 20005, telephone 202-219-9657.

Additional information about the vaccines listed above and contraindications for immunization is available at <http://www.cdc.gov/va> or from the National Immunization Hotline, 1-800-232-2522 (English) or 800-232-4233 (Spanish).

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### Contributors

L. The data to support a recommendation.



# **Disease Burden & Immunization Recommendations**

# **Annual Adult Vaccine-Preventable Disease Burden Is High**

- **VPD's kill hundreds of times more adults than children every year**
- **More than 47,000 deaths per year:**
  - **20,000 from pneumococcal disease**
  - **20,000 from influenza**
  - **5,000 from hepatitis B**
- **Coverage levels generally low**
- **Many adults unnecessarily remain at risk**

# Vaccines for a Few Adults

## Vaccine

- Meningococcal

## Indications

Asplenic

Travel

Military

College freshmen in dorms

- Hib

Asplenic

- IPV, Typhoid,  
Hepatitis A,  
Yellow Fever,  
Others

Travel

# Vaccines for Some Adults

## Vaccine

## Indications

- |                       |                 |
|-----------------------|-----------------|
| • Hepatitis B Vaccine | Increased Risk  |
| • MMR Vaccine         | Born after 1956 |
| • Varicella Vaccine   | Susceptible     |

# Vaccines for Many Adults

## Vaccine

- Tetanus and diphtheria toxoids
- Pneumococcal Vaccine
- Influenza Vaccine

## Indications

All - every 10 yrs

All 65 yrs  
Underlying Illness

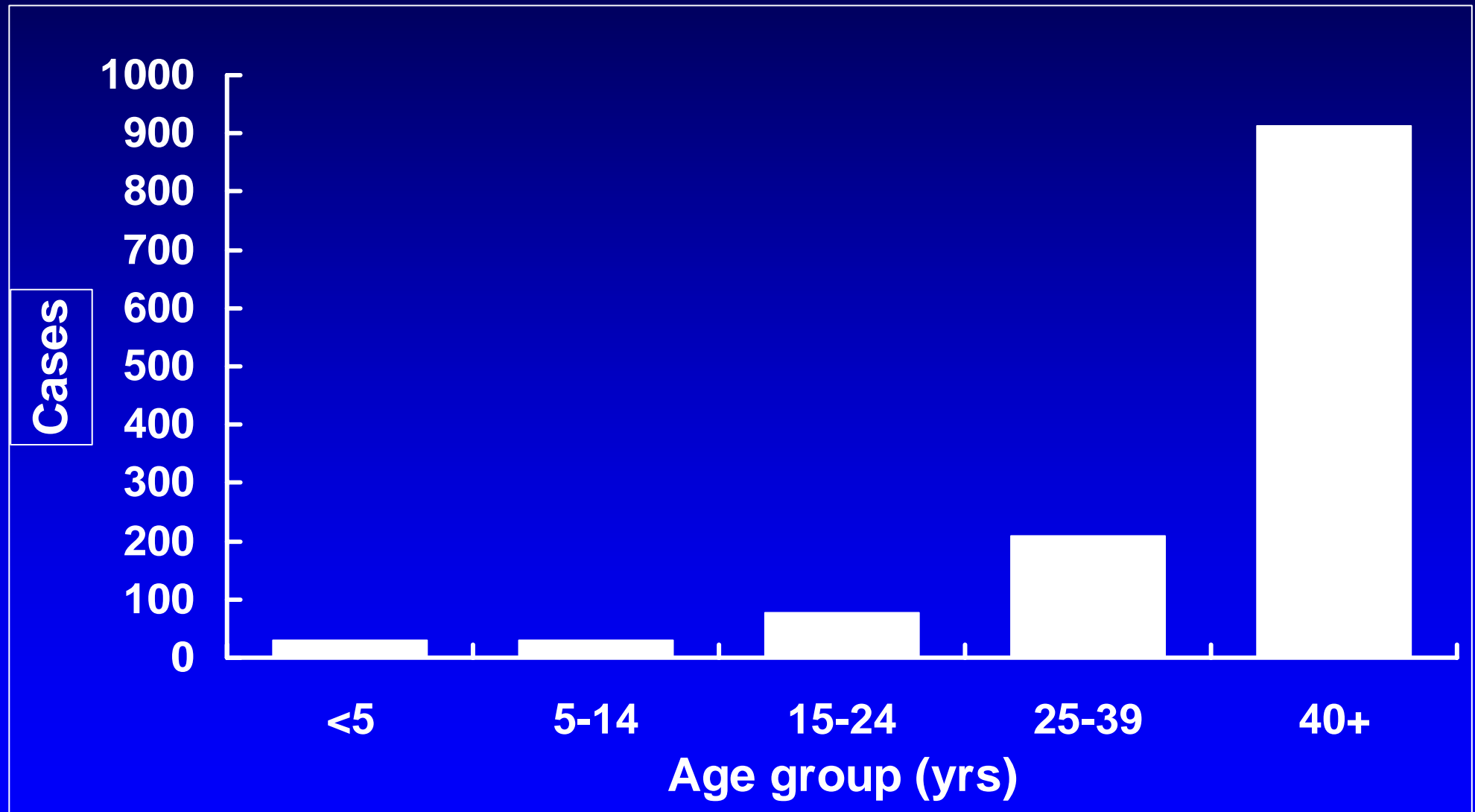
All 65 yrs  
Underlying Illness  
Contacts

# Tetanus and Diphtheria



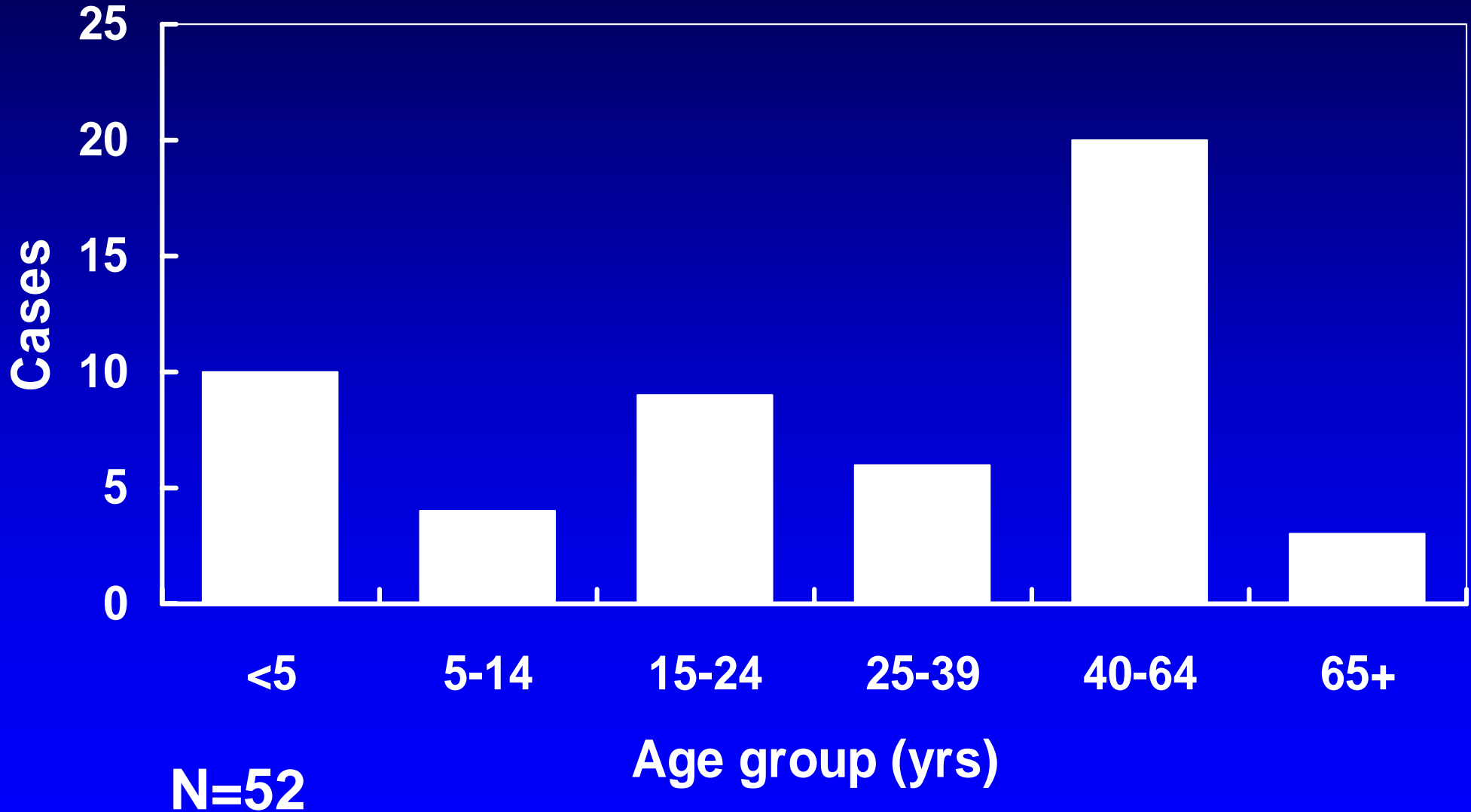
# Tetanus – United States, 1980-2002

## Age Distribution



# Diphtheria – United States, 1980-2002

## Age Distribution of Reported Cases





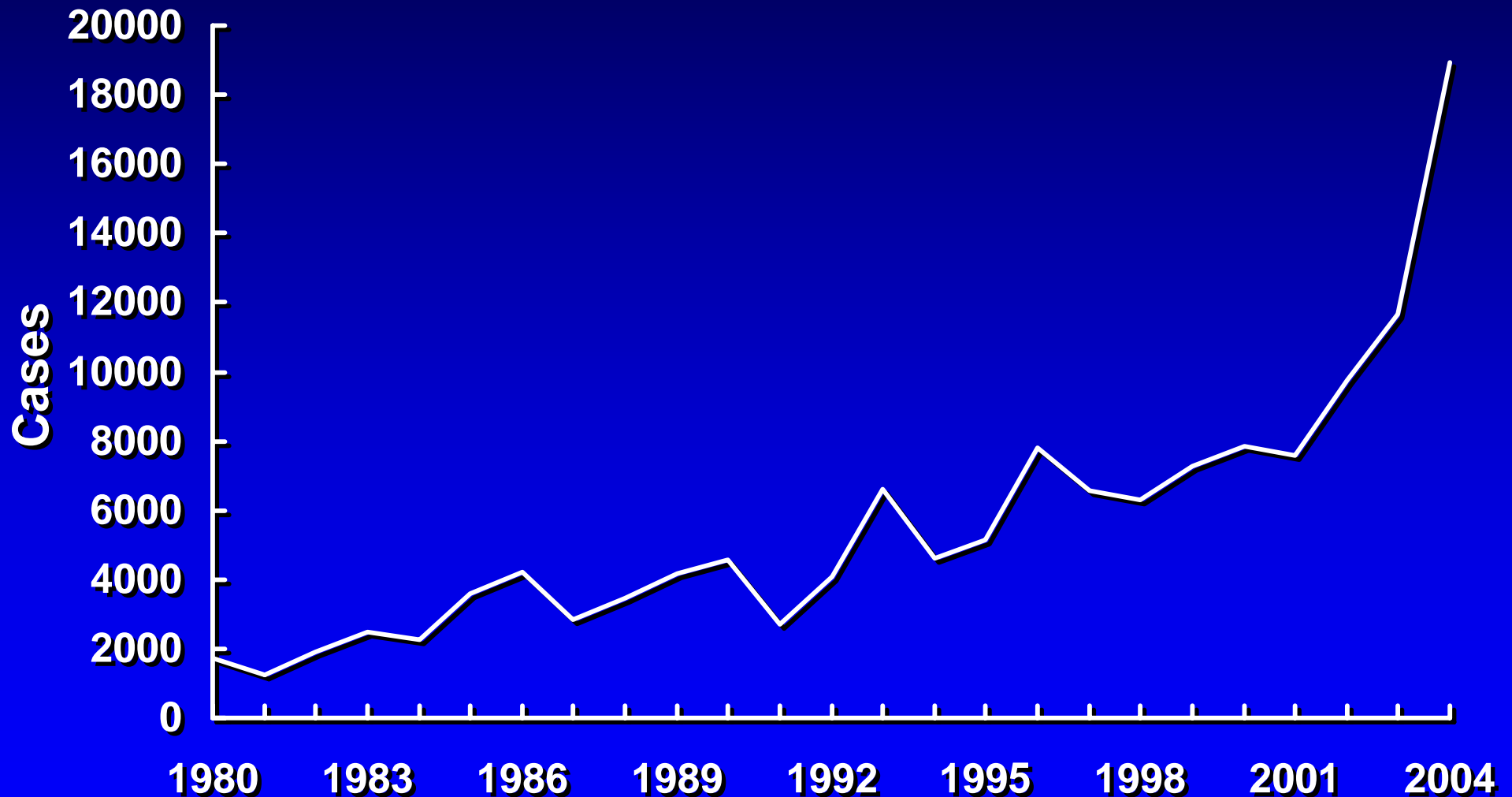
# Tetanus and Diphtheria

- **>50% of adults do not have protective levels of antibodies against tetanus and diphtheria toxins**
- **May not have received a primary series of tetanus- and diphtheria-containing vaccine**
- **Do not receive routine booster doses**

# Combating Pertussis Disease

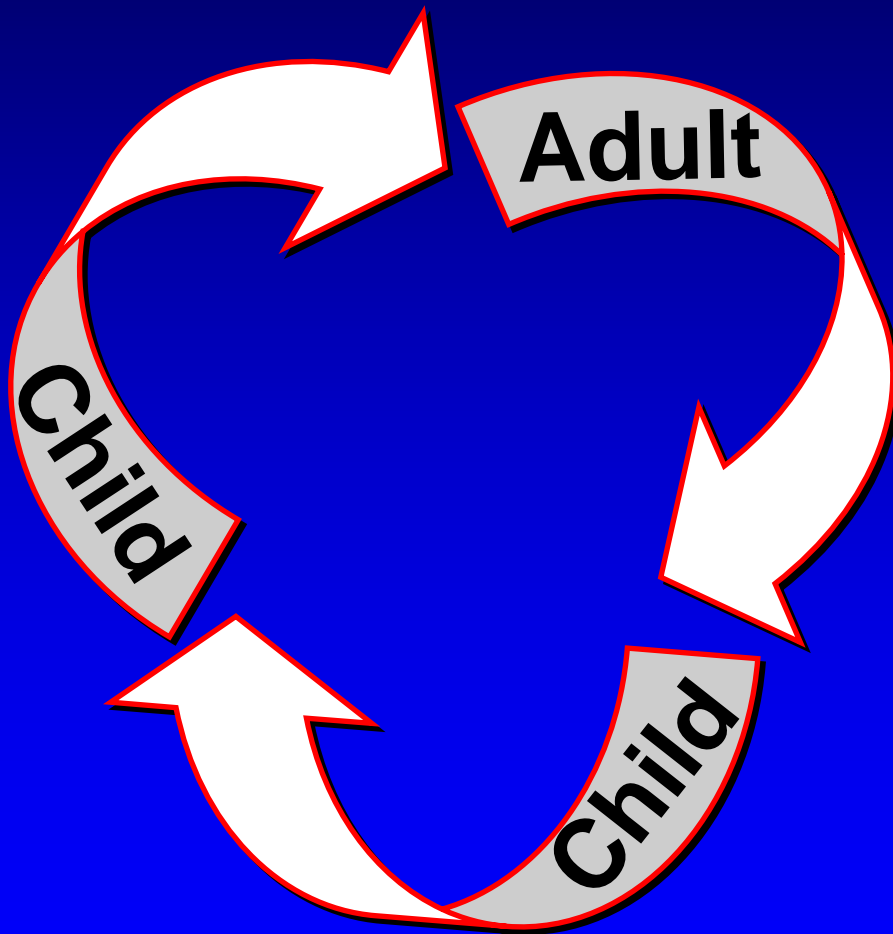


# Pertussis – United States, 1980-2004\*



\*2004 provisional data

# The Vicious Cycle of Pertussis

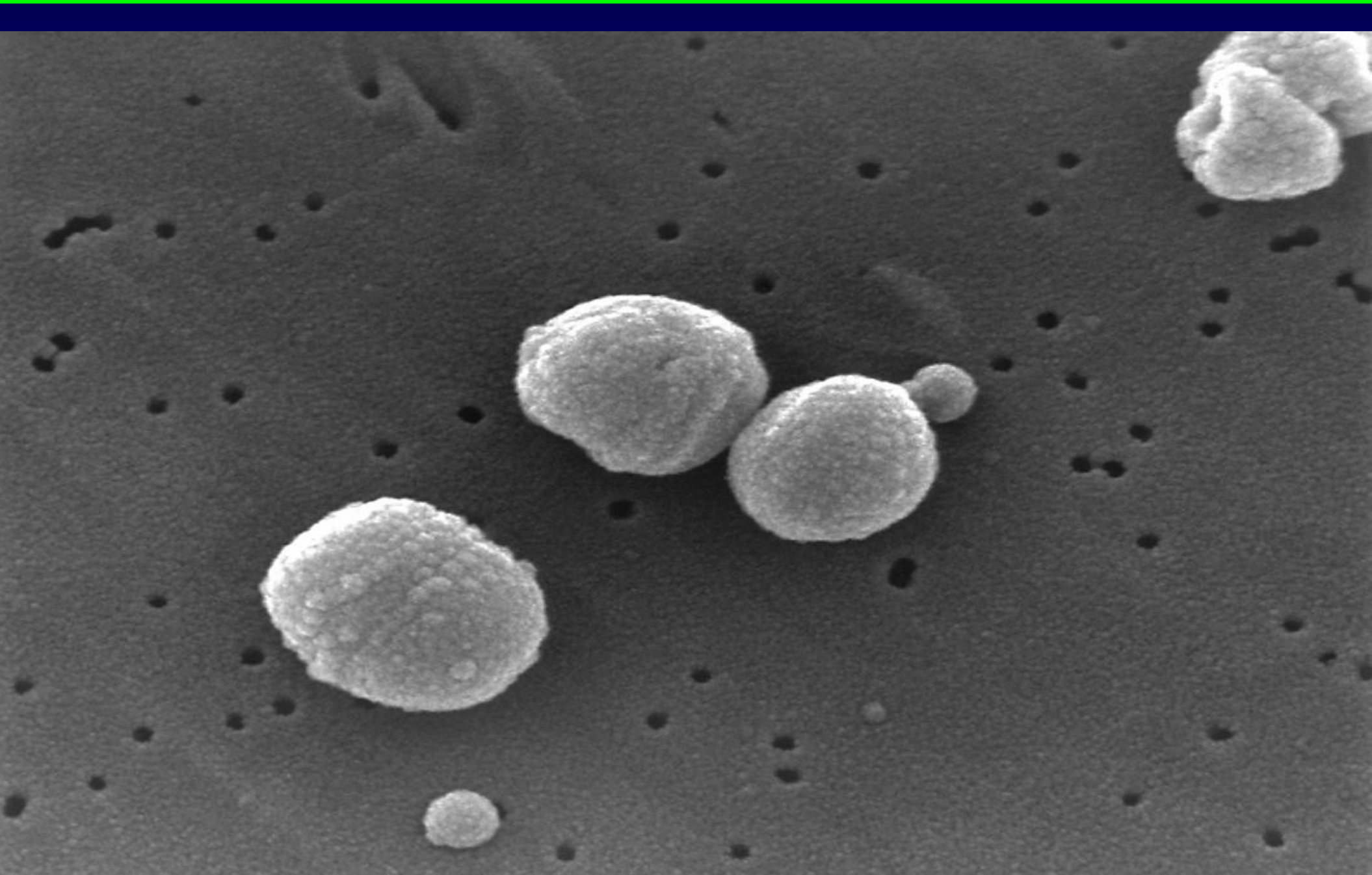


- Accounts for up to 7% of cough illnesses per year, and 20%-25% of cough illnesses lasting more than 7 days
- In 1997-2000, the pertussis incidence rate among adolescents and adults increased by 60%
- Adults often source of infection for children

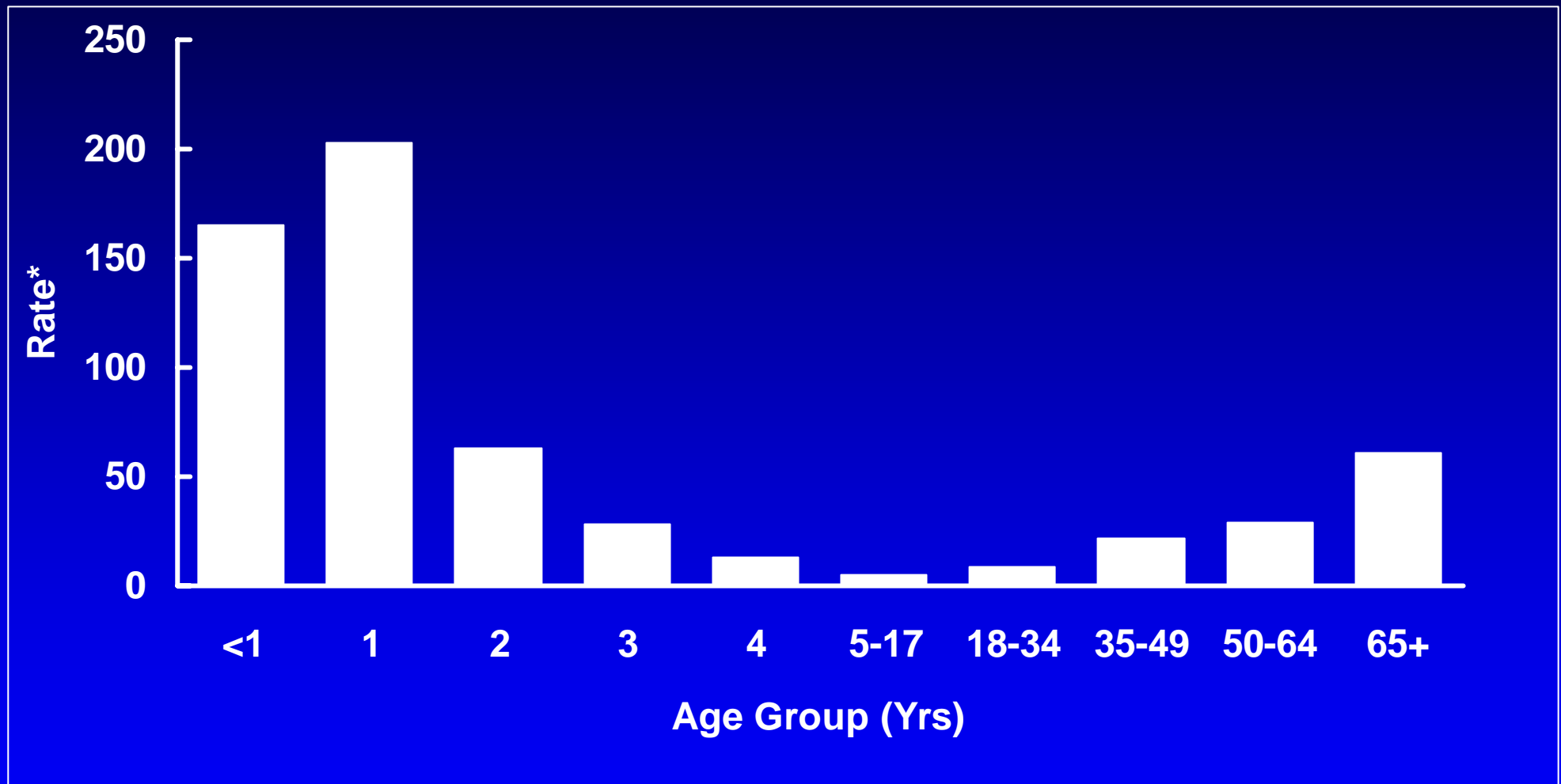
# Td + ap Vaccine

- **Boostrix<sup>TM</sup> (GlaxoSmithKline)**  
approved by FDA for use in persons  
10-18 years of age on May 3, 2005
- **Adacel<sup>TM</sup> (sanofi pasteur)**  
approved by FDA for use in persons  
11-64 years of age on June 10, 2005

# Pneumococcal



# Invasive Pneumococcal Disease Incidence by Age Group - 1998



\*Rate per 100,000 population

Source: Active Bacterial Core Surveillance/EIP Network

# **Pneumococcal Polysaccharide Vaccine Recommendations**

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- **Adults  $\geq 65$  years of age**
- **Adults with normal immune systems who have chronic illness**
- **Immunocompromised adults**
- **Persons with HIV infection**
- **Persons with cochlear implants**
- **Persons in environments or settings with increased risk**



# PPV23 Revaccination for Adults

- Revaccinate once  
(2 total doses maximum)
- $\geq 5$  years after first dose
- Asplenia
- Immunosuppression
- Chronic renal failure
- Nephrotic syndrome
- Persons vaccinated at  $<65$  years of age

# Pneumococcal polysaccharide vaccine (PPV23)

## CDC answers your questions

William L. Atkinson, MD, MPH, medical epidemiologist, CDC's National Immunization Program, answers your questions on pneumococcal polysaccharide vaccine (PPV).

To obtain a copy of  
the official CDC recommendation

"Prevention of  
Pneumococcal Disease,"

call (800) CDC-INFO [(800) 232-4636]

or go to [ftp.cdc.gov/pub/publications/  
mmwr/rr/rr4608.pdf](http://ftp.cdc.gov/pub/publications/mmmwr/rr/rr4608.pdf)

### How serious is pneumococcal disease?

An estimated 40,000 cases of invasive pneumococcal disease occur annually. Case-fatality rates are high, particularly when disease results in meningitis (~30%) or bacteremia (~20%). In addition, pneumococcal pneumonia, often a secondary complication of influenza, results in an estimated 175,000 hospitalizations annually.

### My patient doesn't have a record of receiving PPV, but she believes she may have had it in the past. What should I do?

Persons with uncertain or unknown vaccination status should be vaccinated.

### Should all nursing home patients be vaccinated against pneumococcal disease?

Yes. Standing orders for vaccination of persons admitted to long-term care facilities can help simplify the procedure.

### Should people with asthma receive PPV?

Asthma is not an indication for routine pneumococcal vaccination unless it occurs with chronic

### If I give PPV to my patient now, must I wait a month before giving influenza or Td vaccine?

Inactivated influenza vaccine and Td toxoids may be given at the same time as or at any time before or after a dose of PPV. There are no minimum interval requirements between the doses of these or any other inactivated vaccines.

### When should I vaccinate patients who are planning to have either a cochlear implant or elective splenectomy?

If time permits, give PPV to such patients at least 2 weeks before surgery.

### What needle length is recommended for administration of PPV to adults?

Pneumococcal vaccine may be given either IM or SC. Use a 1-1½" needle for IM, depending on muscle mass. For SC, use a ½-¾" needle.

### Which patients should also receive the pneumococcal conjugated vaccine (PCV)?

PCV is recommended for all children age less than 24 months as well as children ages 24-59 months with a high-risk medical condition. Consult the ACIP recommendations for more details (*MMWR*, Vol. 49, RR-9, 10/6/00).

### Immunocompetent Persons

Who needs pneumococcal (PPV) vaccine?	Who in the groups in the left column needs revaccination?
Vaccinate all persons age 65 years and older.	Revaccination for healthy persons is not recommended. However, if a patient received the first dose prior to age 65, give a single revaccination at age 65 (or older) if at least 5 years have

[www.immunize.org/catg.d/2015pne.pdf](http://www.immunize.org/catg.d/2015pne.pdf)

# Influenza



- ~36,000 excess deaths per year
- >90% of deaths among persons  $\geq 65$  years of age

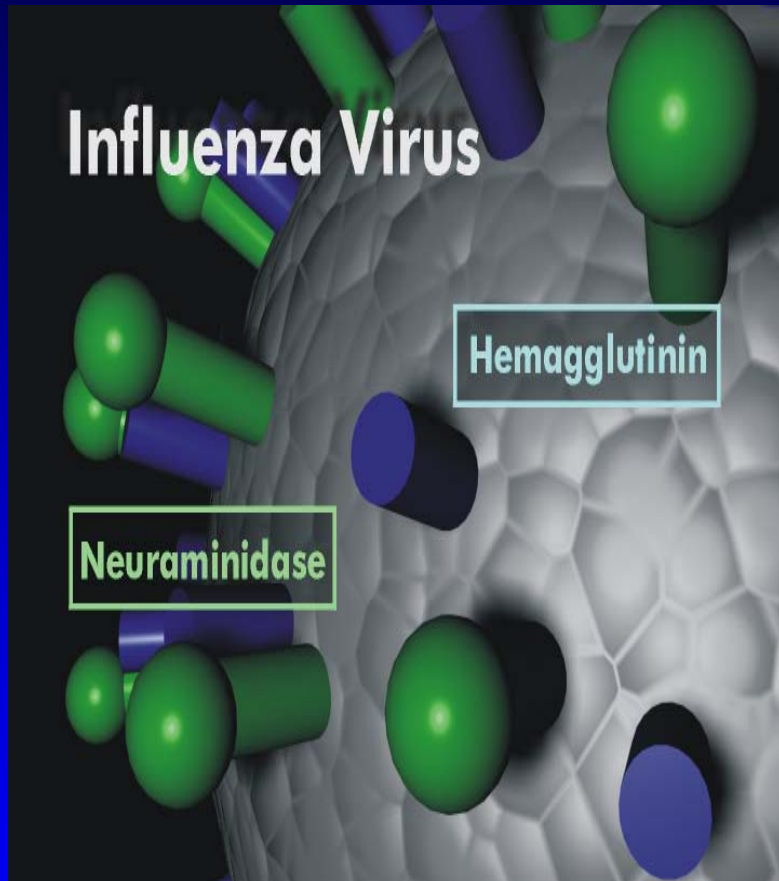
# **Estimated Influenza Vaccination Coverage**

<b>Selected Group</b>	<b>Percentage Coverage</b>
<b>Ages 18 – 64 (high risk)</b>	<b>26</b>
<b>Ages <math>\geq</math> 65</b>	<b>63</b>
<b>Pregnant women</b>	<b>12</b>
<b>Healthcare workers w/ patient contact</b>	<b>36</b>
<b>Household contacts</b>	<b>18</b>

# Evolution of Influenza Vaccine & Recommendations

- 1945 whole virus inactivated vaccine licensed
- 1961 first routine recommendations for civilians
- 1970s started using subvirion vaccine
- 1964 – 1994 Targeting and defining high-risk groups
- 2003 live attenuated influenza vaccine licensed
- 2004 routine recommendation for children 6-23 months of age and all pregnant women

# Influenza Vaccine



- Trivalent (H3N2, H1N1, B)
  - A/California /7/2004(H3N2)-like
  - A/New Caledonia/20/99(H1N1)-like
  - B/Shanghai/361/2002-like
- Duration of immunity <1 year
- Efficacy varies by age and health status, similarity to circulating strain
- Schedule – annual
- TIV – injection, inactivated
- LAIV – intranasal, live attenuated

# Priority Groups for Influenza Vaccination

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- All children aged 6–23 months
- Adults aged >65 years
- All women who will be pregnant during the influenza season
- Persons aged 2–64 years with underlying chronic medical conditions



# **New Chronic Disease Risk Group (2005-2006)**

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**Any condition (e.g. cognitive dysfunction, spinal cord injuries, seizure disorders or other neuromuscular disorders) that can compromise respiratory function or the handling of respiratory secretions, or that can increase the risk of aspiration**



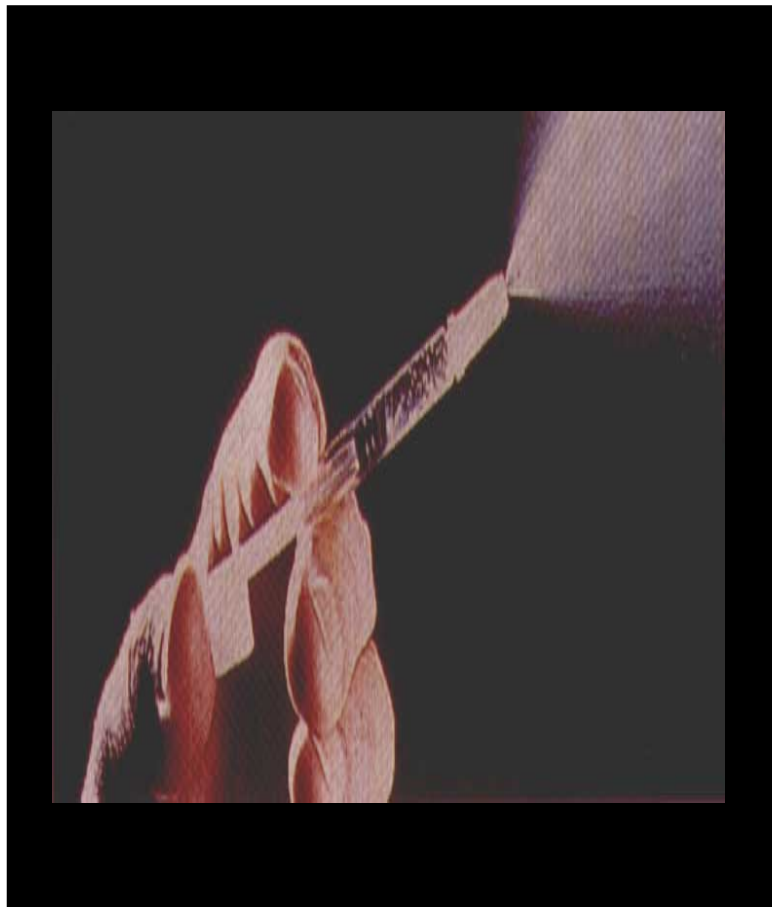
# Priority Groups for Influenza Vaccination

- Residents of nursing homes and long-term care facilities
- Children aged 6 months–18 years on chronic aspirin therapy
- Healthcare workers involved in direct patient care
- Out-of-home caregivers and household contacts of children aged <6 months

# Other Groups for Influenza Vaccination

- People who provide essential community services
- People living in dorms or other crowded conditions
- High-risk travelers to Southern hemisphere April-September or traveling to the tropics or in organized groups at any time

# Live Attenuated Influenza Vaccine



- **Healthy persons 5–49 years of age**
  - **Household contacts of persons at increased risk of complications of influenza**
  - **Healthcare workers**

# 2004-05 Bad News



Home



E-Mail



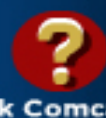
Video Mail



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Rhapsody



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### U.S. Flu Vaccine Supply Cut in Half

56 minutes ago

By LAURAN NEERGAARD, AP Medical Writer

WASHINGTON - Americans' supply of flu vaccine was abruptly cut in half Tuesday, prompting the government to ask most healthy adults to delay or skip flu shots so that the elderly and others most at risk from influenza can get scarce supplies.



5 October 2004

## LIVE VIDEO



## HEADLINES

- [U.S. Flu Vaccine Supply Cut in Half](#)
- [Hormone Leptin May Treat Infertility](#)
- [Group Says Prevent 'Anesthesia Awareness'](#)
- [Study Links Estrogen Pills, Blood Clots](#)
- [FDA Warns Lexxel](#)

# Planning for the 2005-2006 Influenza Season

Scenario	Total doses	Source of Vaccine
Base	~63 M	<ul style="list-style-type: none"><li>•TIV 60 M doses - sanofi pasteur</li><li>•LAIV 3 M doses - MedImmune</li></ul>
Best	>> 63 M	<ul style="list-style-type: none"><li>•TIV 50-60 M doses - sanofi pasteur</li><li>•TIV 25-30 M doses – Chiron</li><li>•TIV 10 M doses GSK</li><li>•LAIV 3 M doses - MedImmune</li></ul>
Worst	<< 63 M	<ul style="list-style-type: none"><li>•TIV &lt;60 M doses – sanofi pasteur</li><li>•LAIV 3 M doses - MedImmune</li></ul>

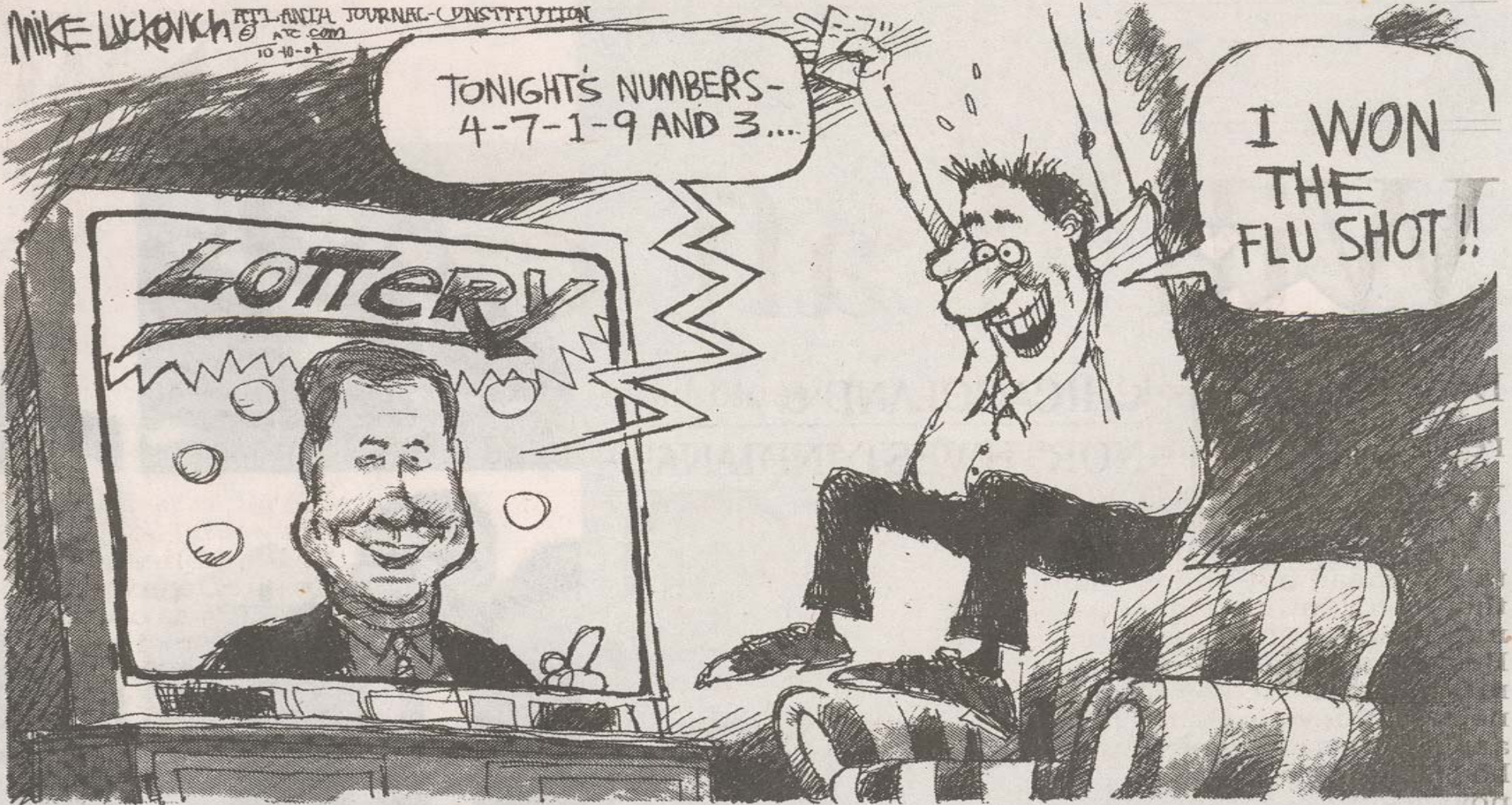


# One Approach to Allocating a Scarce Resource



SUNDAY

OCTOBER 10, 2004



# Priority Activities

- **Develop various supply scenarios as basis of plans**
- **Monitor manufacturer production projections closely**
- **Prioritize recommendations for vaccine**
- **Vaccine pre-booking**
- **Vaccine distribution policies**
- **Communication plans**
- **Education about use of antiviral medications**
- **Education about infection control**

# Long-Term Considerations

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- **Increasing number of influenza vaccine manufacturers**
- **Developing other technologies for manufacturing influenza vaccine**
- **Planning for the next influenza pandemic**



# !!! Influenza Pandemic !!!

- “Experts agree that another influenza pandemic is inevitable and possibly imminent.”

- World Health Organization  
Avian influenza fact sheet  
15 January 2004

**NEWS**

☐ News ☐ Science


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## Scientists Predict Worldwide Flu Outbreak

43 minutes ago [Listen to Audio](#)

By MALCOLM RITTER, AP Science Writer

NEW YORK - As bad as this year's flu season is, it hasn't brought the worldwide outbreak known as a pandemic. But experts warn that a pandemic is coming, it's just a question of when. "It's going to happen," said Dr. Greg Poland of the Mayo Clinic. "For the American public in particular, I think it will be horrific."

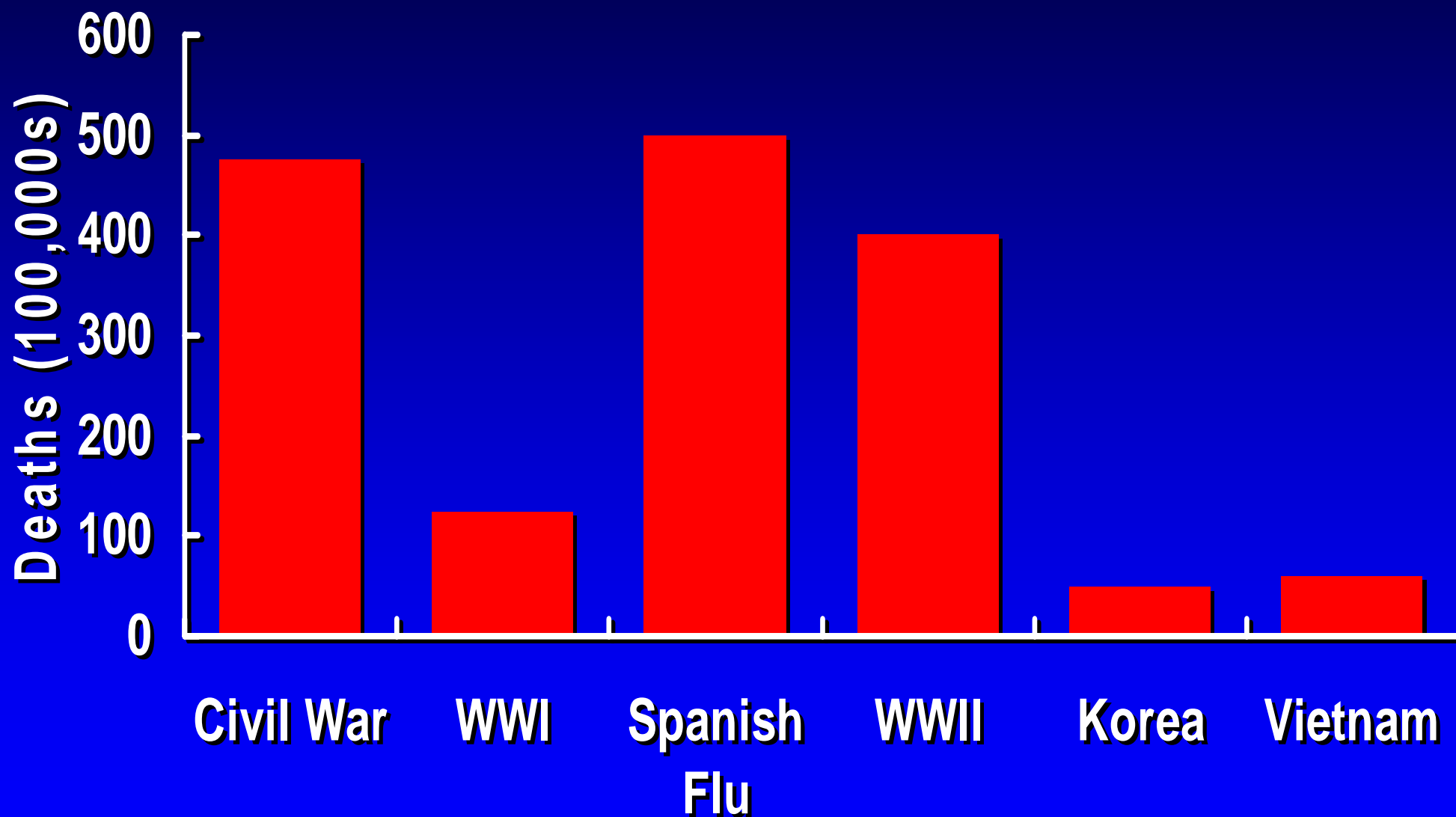


# 20th Century Influenza Pandemics

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- **Spanish Influenza, 1918-1919 (H1N1?)**
- **Asian Influenza, 1957-1958 (H2N2)**
- **Hong Kong Influenza, 1968-1969 (H3N2)**

# Spanish Influenza in Perspective



# H5N1 Avian Influenza

- Entire geographic areas will be affected simultaneously
- Healthcare and other service providers will be more likely to be affected than the public
- Healthcare facilities will be overwhelmed
- 89,000-207,000 deaths



# **Pandemic Influenza Preparedness Plan Objectives**

- **Strengthen national and global capabilities for virologic and disease surveillance**
- **Improve national readiness to respond to a potential or actual influenza pandemic**
- **Strengthen influenza-related public health practices, infrastructure, and research**

*Clin Infect Dis* 2002;35:590-6

# What does the future hold?



- **Vaccines for sexually transmitted infections (HSV, HPV, GC)**
- **Vaccine for herpes zoster (shingles)**

# Resources



# Self-assessment

## www2.cdc.gov/nip/adultImmSched/



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- ▶ [Vaccines for Children Program](#)
- ▶ [CASA \(Clinic quiz Program\)](#)
- ▶ [AFIX \(Grantee quiz\)](#)
- ▶ [VACMAN](#)

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(800)232-2522
- ▶ [Spanish](#)  
(800)232-0233
- ▶ [TTY](#)  
(800)243-7889



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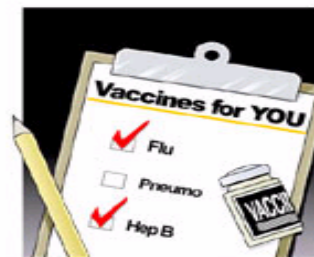
## What Vaccines do **YOU** need?

Vaccines are recommended for children, but adolescents\* and adults can benefit from vaccines, too. Answer the questions in this quiz to find out what vaccines **YOU** may need.

\* This quiz provides information for people age 11 years and older.

1. **Complete** the quiz.
2. **Get a list of vaccines** you may need.
3. **Discuss the vaccines with your doctor or healthcare professional.**

[Privacy Policy & Disclaimer](#)



### Part One, About You

1. Are you  
☐ Female ☐ Male
2. For women only (Some vaccines can affect pregnancy.)  
☐ I could become pregnant. ☐ I am pregnant now.
3. What year were you born? (Some vaccines are age-related.)  
1994

### Part Two, Your Lifestyle and Your Work

You may need certain vaccines because of where you live, the kind of work you do, or other lifestyle factors.

1. Will you be traveling internationally in the near future?  
☐ Yes ☐ No
2. Are you a college freshman who lives in a dormitory at college?  
☐ Yes ☐ No
3. Are you a resident in a nursing home?  
☐ Yes ☐ No
4. Do you work with patients in a nursing home, doctor's office, hospital, or other healthcare setting?



# Tools Available to Support Adult Vaccination Efforts

## Adults Only Vaccination:

A Step-by-Step Guide

S&H video

Administration video

Immunization cards

Educational tools

Available from

Immunization Action Coalition



[www.immunize.org/guide/index.htm](http://www.immunize.org/guide/index.htm)

# Assessing Immunization Practices

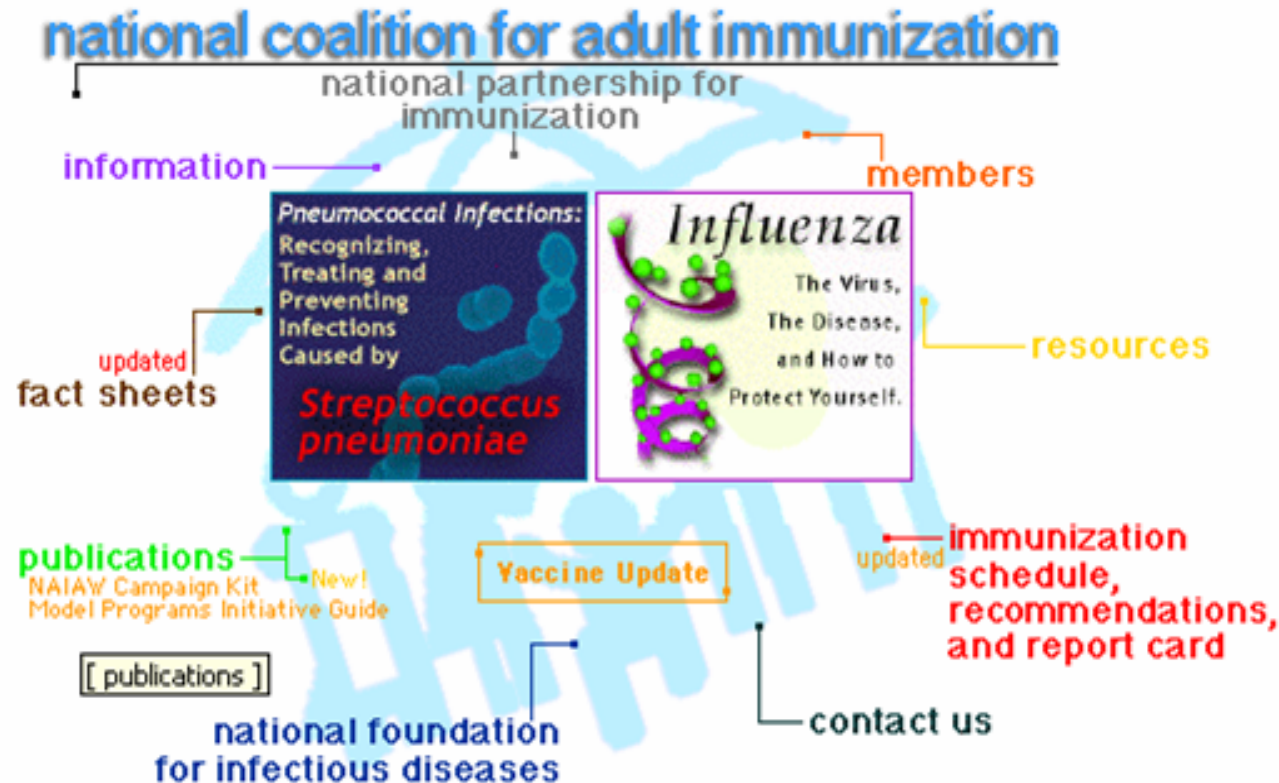


## Adult Clinic Assessment Software (ACASA)

A tool for assessing adult  
immunization practices  
within a clinic

[www.immunize.org/guide/index.htm](http://www.immunize.org/guide/index.htm)

# Adult Immunization Coalition



© 1998-2003 National Coalition for Adult Immunization

[www.nfid.org/ncai/](http://www.nfid.org/ncai/)

Website: [www.cdc.gov/nip](http://www.cdc.gov/nip)  
Email: [nipinfo@cdc.gov](mailto:nipinfo@cdc.gov)



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## In the Spotlight...for Healthcare Professionals

- ▶ [Status of Licensure and Recommendations for New Vaccines](#) (exit site) (May 27)
- ▶ [Meningococcal Disease & Vaccines fact sheet](#) (May 17)
- ▶ [Childhood immunization schedule available in Spanish-language](#) (Apr. 29)
- ▶ [Vaccines Timeline](#) (Apr. 28)
- ▶ [Meningococcal Conjugate/Polysaccharide VIS available](#) (Apr. 4)
- ▶ [National Viral Hepatitis Prevention Conference](#): abstracts deadline: May 27 (Mar. 18)
- ▶ [Vaccine Delays & Availability: Update](#) (Mar. 14)
- ▶ More...[Archived spotlighted items](#)

<b>Major topics:</b>	<a href="#">Frequently Asked For</a>   <a href="#">Vaccines</a>   <a href="#">Diseases</a>   <a href="#">Resources</a> <a href="#">Vaccine Safety</a>   <a href="#">Specific Groups</a>   <a href="#">News &amp; Events</a> <a href="#">Statistics &amp; Surveillance</a>
<b>Topics below:</b>	<a href="#">Vaccine Safety</a>   <a href="#">Vaccines</a>   <a href="#">Resources</a>   <a href="#">Education/Training</a> <a href="#">Reminder Systems</a>   <a href="#">Patient Education</a>   <a href="#">Guidelines</a>   <a href="#">Events</a> <a href="#">Diseases &amp; Surveillance</a>   <a href="#">Research and Development</a> <a href="#">Software Tools</a>   <a href="#">Immunization Schedules</a>   <a href="#">Storage &amp; Handling</a>

### News, Calendar & Events

- ▶ [News, Newsletters, & Listservs](#)
- ▶ [Calendar of events](#)
- ▶ [NIP Events and Programs](#)
- > [More items...](#)

### Vaccine Safety

- ▶ [Clinical Immunization Safety Assessment Centers](#)
- ▶ [Simian Virus-40 and vaccines Q&As](#) and [fact sheet](#)
- ▶ [Vaccine Safety Issues: A - Z](#)
- ▶ [Overview](#) (history & NIP's efforts)
- ▶ [The provider's role](#)
- ▶ [Contraindications: who should not](#)

### Recommended Vaccination/Immunization Schedules

- ▶ [Vaccine Quiz Helps Adults Decide If They Need Vaccines](#) New!
- ▶ [Make a vaccination schedule for your patient \(birth to 5 years\)](#)
- ▶ [Childhood](#) and [Adult](#) vaccination schedules 2005 versions now available!
- ▶ [Catch-up Schedule](#)
- > [More items...](#)

### Vaccines

- ▶ [ABCs of Childhood Vaccines presentation](#)
- ▶ [Vaccines chart](#) (quick reference)

### NIP Site Search

**For Immunization Information, call the CDC-INFO Contact Center:**

- ▶ **English and Spanish**  
**800-CDC-INFO**  
**800-232-4636**

# **Recommendations of the Advisory Committee on Immunization Practices**

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- **General Recommendations**
- **Adult Immunizations**
- **Healthcare Workers**
- **Immunocompromised Persons**
- **Individual Vaccines**

**[www.cdc.gov/nip/acip](http://www.cdc.gov/nip/acip)**

# www.cdc.gov/nip/publications/vis



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Publications > VIS

## Vaccine Information Statements (VIS)

**At a Glance:** Vaccine Information Statements (VISs) are information sheets produced by the Centers for Disease Control and Prevention (CDC) that explain to vaccine recipients, their parents, or their legal representatives both the benefits and risks of a vaccine. Federal law requires that VISs be handed out whenever (before each dose) certain vaccinations are given.

### Contents of this page:

- Vaccine Information Statements (VISs)
  - [Anthrax](#) | [DTaP](#) | [Hepatitis](#) | [Hib](#) | [Influenza](#) | [MMR](#)
  - [Meningococcal](#) | [PPV23](#) | [PCV7](#) | [Polio](#) | [Rabies](#)
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- [VISs in other languages](#) (e.g., Spanish)

### Related links:

- [VIS facts](#) (answers FAQs) **NEW!**
- Instructions for using the VISs
  - [Instructions in .pdf format](#)
  - [Text-only](#) version of instructions

## Vaccine Information Statements (VISs)

	(.pdf) printable (.txt) text-only* (.wma) Audio** Other languages***
<b>Vaccine(s)</b>	
<b>Anthrax</b> 4/24/03	<a href="#">Anthrax</a> printable version in English <a href="#">Text-only</a> (screen-reader device version) <a href="#">Other languages</a> ** not current
<b>Diphtheria/ Tetanus/Pertussis (DTaP)</b> 7/30/01	<a href="#">DTaP</a> printable version in English <a href="#">Text-only</a> (screen-reader device version) <a href="#">Audio</a> 🎧 <a href="#">Other languages (including Spanish)</a> **


# International Travel




[www.cdc.gov/travel](http://www.cdc.gov/travel)



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## National Immunization Program

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Education and Training health care professionals

## NetConferences

Immunization NetConferences are live, 1-hour presentations combining an **online visual presentation** with **simultaneous audio** via telephone conference call and a live **question and answer** session.



These presentations, collectively titled "Current Issues in Immunization," are scheduled 4 times per year. Specific topic(s) will be announced prior to each presentation.

**NEXT PROGRAM**  
**July 14 , 2005**

For more information about this NetConference, and links to archived sessions, Visit the [Current Issues in Immunization Netconference web page](#).

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- [AFIX \(Grantee Assessment\)](#)
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**NIP Site Search**



# Live Satellite Broadcast



## Immunization Update July 28, 2005

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